

ABSTRACT

The present invention relates to a method and an apparatus for treating an ammonia (NH_3)-containing gas, and particularly to a method and an apparatus for defusing NH_3 in an exhaust gas or NH_3 expelled from a waste water to a vapor phase; namely, the method and apparatus for treating an NH_3 -
5 containing gas which can oxidize and decompose highly efficiently NH_3 of a high concentration into nitrogen.

In the present invention, the NH_3 -containing gas passing through a catalyst tower (9) is allowed to be in contact with a pre-treatment catalyst layer
10 (1) having a flow path involving a catalyst layer having the function of oxidizing NH_3 to generate NO in parallel to another flow path involving a catalyst layer not having the above function, and then, the resultant gas is allowed to be in contact with a catalyst layer (2) having the denitration function in combination with the function of oxidizing NH_3 to generate NO.

15 According to the present invention, a gas containing NH_3 even in a high concentration may be treated with good efficiency, without the thermal deterioration of a catalyst layer or the increase of the generation of NO_x as a by-product.